

Water-Data Report 2008

403100074464101 Local number 190455- MW107

 Early Mesozoic basin aquifers
 Passaic Formation

Hunterdon County, NJ

LOCATION.--Lat 40°31'00.3", long 74°46'41.1" referenced to North American Datum of 1983, Readington Township, Hunterdon County, NJ, Hydrologic Unit 02030105.

WATER-QUALITY RECORDS

WELL CHARACTERISTICS.--Depth 41 ft. Upper casing diameter 2 in; top of first opening 21 ft, bottom of last opening 41 ft.

DATUM.--Land-surface datum is 150 ft above National Geodetic Vertical Datum of 1929. Measuring point: Undefined, 0 ft above land-surface datum, June 26, 2003, to present.

PERIOD OF RECORD.--Water years 2003, 2008.

REMARKS.--New Jersey Department of Environmental Protection Watershed Management Area 8. Agricultural Land Use Indicator.

COOPERATION.--Physical measurements and samples for laboratory analysis were collected in cooperation with the New Jersey Department of Environmental Protection.

**WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 1 of 13

[Remark codes: <, less than; E, estimated; R, radchem non-detect, below ssLc.]

Date	Time	Depth to water level, feet below instantaneous	Pump or flow rate, gal/min (LSD (72019))	Turbidity period prior to sampling, minutes	Barometric pressure, 90+/-30 corrctd NTRU (72004) (63676)	Dissolved oxygen, mg/L (00025)	Dissolved oxygen, percent of saturation (00300)	pH, unfltrd field, std units (00400)	Specific conductance, 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, mg/L (00915)	
Jul 08...	1305	7.07	.25	125	6.4	755	3.9	40	7.5	403	15.9	180	52.0

**WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 2 of 13

[Remark codes: <, less than; E, estimated; R, radchem non-detect, below ssLc.]

Date	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	ANC, wat unf fixed end pt, lab, mg/L as CaCO3 (90410) (39086)	Alkalinity, wat flt inf tit field, mg/L as CaCO3 (CaCO3) (00453)	Bicarbonate, wat flt infl tit titr., mg/L (00940)	Chloride, water, fltrd, mg/L (00950)	Fluoride, water, fltrd, mg/L (00955)	Silica, water, fltrd, mg/L as SiO2 (00945)	Sulfate, water, fltrd, mg/L (70301)	Residue water, fltrd, sum of constituents, mg/L (70301)	Residue water, evap. at 180degC, mg/L (70300)	Ammonia + org-N, water, fltrd, mg/L as N (00623)
Jul 08...	11.4	.94	10.5	166	156	189	7.24	E.10	19.3	13.3	E227	232	<.14

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 3 of 13

[Remark codes: <, less than; E, estimated; R, radchem non-detect, below ssLc.]

Date	Nitrate + Ammonia water, filtrd, mg/L as N (00608)		Nitrite water, filtrd, mg/L as N (00631)	Ortho- phos- phate, water, filtrd, mg/L as P (00671)		Organic carbon, water, filtrd, mg/L (00681)	Alum- inum, water, filtrd, mg/L (01106)	Anti- mony, water, filtrd, μg/L (01095)	Arsenic water, filtrd, μg/L (01000)	Barium, water, filtrd, μg/L (01005)	Beryll- ium, water, filtrd, μg/L (01010)	Boron, water, filtrd, μg/L (01020)	Cadmium water, filtrd, μg/L (01025)	Chrom- ium, water, filtrd, μg/L (01030)
	water, filtrd, mg/L as N (00613)	water, filtrd, mg/L as N (00613)	water, filtrd, mg/L as P (00671)	water, filtrd, mg/L (00681)	water, filtrd, mg/L (01106)	water, filtrd, μg/L (01095)	water, filtrd, μg/L (01000)	water, filtrd, μg/L (01005)	water, filtrd, μg/L (01010)	water, filtrd, μg/L (01020)	water, filtrd, μg/L (01025)	water, filtrd, μg/L (01030)	water, filtrd, μg/L (01030)	water, filtrd, μg/L (01030)
Jul 08...	<.020	4.11	<.002	.071	E.3	E1.2	<.14	2.5	231	<.01	21	<.04	.80	

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 4 of 13

[Remark codes: <, less than; E, estimated; R, radchem non-detect, below ssLc.]

Date	Copper, water, filtrd, μg/L (01040)	Iron, water, filtrd, μg/L (01046)	Lead, water, filtrd, μg/L (01049)	Manganese, water, filtrd, μg/L (01056)	Mercury water, filtrd, μg/L (71890)	Nickel, water, filtrd, μg/L (01065)	Selenium, water, filtrd, μg/L (01145)	Silver, water, filtrd, μg/L (01075)	Thallium, water, filtrd, μg/L (01057)	Zinc, water, filtrd, μg/L (01090)	1-Naphthal, water, filtrd, 0.7u GF (49295)	2,6-Diethyl-aniline, water, filtrd, 0.7u GF (82660)	2-Chloro-acetanilide, water, filtrd, μg/L (61618)	
	water, filtrd, μg/L (01040)	water, filtrd, μg/L (01046)	water, filtrd, μg/L (01049)	water, filtrd, μg/L (01056)	water, filtrd, μg/L (71890)	water, filtrd, μg/L (01065)	water, filtrd, μg/L (01145)	water, filtrd, μg/L (01075)	water, filtrd, μg/L (01057)	water, filtrd, μg/L (01090)	water, filtrd, μg/L (49295)	water, filtrd, 0.7u GF (82660)	water, filtrd, 0.7u GF (61618)	
Jul 08...	<1.0	14	<.08	1.6	<.010	1.8	.37	<.1	<.04	<1.8	<.04	<.006	<.010	

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 5 of 13

[Remark codes: <, less than; E, estimated; R, radchem non-detect, below ssLc.]

Date	2-Ethyl -6-methyl- CIAT, water, filtrd, μg/L (04040)	3,4-Di- chloro- aniline, water, filtrd, μg/L (61620)	3,5-Di- chloro- aniline, water, filtrd, μg/L (61625)	4-Chloro- 2methyl- phenol, water, filtrd, μg/L (61627)	Aceto- chlor, water, filtrd, μg/L (61633)	Alpha- Endochlor, water, filtrd, μg/L (49260)	Ala- chlor, water, filtrd, μg/L (46342)	Endo- sulfan, water, filtrd, μg/L (34362)	Atra- zine, water, filtrd, μg/L (39632)	Azoxy- methoxon, water, filtrd, μg/L (61635)	Azin- phos- methyl, water, filtrd, 0.7u GF (82686)	Azin- phos- methyl, water, filtrd, 0.7u GF (82673)	Benz- flur- alin, water, filtrd, μg/L (82680)	
	water, filtrd, μg/L (04040)	water, filtrd, μg/L (61620)	water, filtrd, μg/L (61625)	water, filtrd, μg/L (61627)	water, filtrd, μg/L (61633)	water, filtrd, μg/L (49260)	water, filtrd, μg/L (46342)	water, filtrd, μg/L (34362)	water, filtrd, μg/L (39632)	water, filtrd, μg/L (61635)	water, filtrd, μg/L (82686)	water, filtrd, 0.7u GF (82673)	water, filtrd, 0.7u GF (82680)	
Jul 08...	E.012	<.010	<.006	<.008	<.005	<.006	<.006	<.006	E.007	<.06	<.120	<.010	<.060	

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 6 of 13

[Remark codes: <, less than; E, estimated; R, radchem non-detect, below ssLc.]

Date	Carbo-furan, water, fltrd 0.7u GF	Chlor-pyrifos oxon, water, fltrd	Chlor-pyrifos water, fltrd	cis-Per-methrin water 0.7u GF	cis-Propi-conazole, water, fltrd	Cyana-zine, water, fltrd	Cyflu-thrin, water, fltrd	lambda-Cyhalothrin, water, fltrd	Cyper-methrin water, fltrd	DCPA, water, fltrd 0.7u GF	Desulf-inyl-fipro-nil, water, fltrd	Diazi-non, water, fltrd	Dicro-tophos, water, fltrd
	µg/L (82674)	µg/L (61636)	µg/L (38933)	µg/L (82687)	µg/L (79846)	µg/L (04041)	µg/L (61585)	µg/L (61595)	µg/L (61586)	µg/L (82682)	µg/L (62170)	µg/L (39572)	µg/L (38454)
Jul 08...	<.020	<.06	<.005	<.010	<.006	<.020	<.016	<.004	<.014	<.003	<.012	<.005	<.08

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 7 of 13

[Remark codes: <, less than; E, estimated; R, radchem non-detect, below ssLc.]

Date	Diel-drin, water, fltrd 0.7u GF	Dimeth-oate, water, fltrd	Disulf-ton sulfone	Disul-foton, water, fltrd	Endo-sulfan sulfate	EPTC, water, fltrd	Ethion monoxon	Ethion, water, fltrd	Etho-prop, water, fltrd	Fenami-phos sulfone	Fenami-phos sulf-oxide,	Fenami-phos, water, fltrd	Desulf-inyl-fipro-nil amide, wat flt
	µg/L (39381)	µg/L (82662)	µg/L (61640)	µg/L (82677)	µg/L (61590)	µg/L (82668)	µg/L (61644)	µg/L (82346)	µg/L (82672)	µg/L (61645)	µg/L (61646)	µg/L (61591)	µg/L (62169)
Jul 08...	<.009	<.006	<.01	<.04	<.022	<.002	<.02	<.006	<.012	<.053	<.20	<.03	<.029

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 8 of 13

[Remark codes: <, less than; E, estimated; R, radchem non-detect, below ssLc.]

Date	Fipro-nil sulfide water, fltrd 0.7u GF	Fipro-nil sulfone water, fltrd	Fipro-nil water, fltrd	Fonofos water, fltrd	Hexa-zinone, water, fltrd	Ipro-dione, water, fltrd	Isofen-phos water, fltrd	Mala-oxon, water, fltrd	Mala-thion, water, fltrd	Meta-laxyl, water, fltrd	Methid-athion, water, fltrd	Methyl-paraoxon, water, fltrd	Methyl-parathion, water, fltrd
	µg/L (62167)	µg/L (62168)	µg/L (62166)	µg/L (04095)	µg/L (04025)	µg/L (61593)	µg/L (61594)	µg/L (61652)	µg/L (39532)	µg/L (61596)	µg/L (61598)	µg/L (61664)	µg/L (82667)
Jul 08...	<.013	<.024	<.020	<.010	.012	<.01	<.006	<.020	<.016	<.007	<.004	<.01	<.008

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 9 of 13

[Remark codes: <, less than; E, estimated; R, radchem non-detect, below ssLc.]

Date	Metola-	Metri-	Moli-	Oxy-	Pendi-	meth-	Phorate	Phorate	Phosmet	Phosmet	Prome-	Prome-	Propy-
	chlor,	buzin,	nate, water,	Myclo-	fluor-		oxon, water,	oxon, water,	water, water,	water, water,	ton, water,	tryn, water,	zamide, water,
Jul 08...	Metola-chlor, water, filtrd, 0.7u GF µg/L (39415)	Metri-buzin, water, filtrd, 0.7u GF µg/L (82630)	Moli-nate, water, 0.7u GF µg/L (82671)	Myclo-butanil, water, filtrd, 0.7u GF µg/L (61599)	Oxy-fluor-fen, water, filtrd, 0.7u GF µg/L (61600)	Pendi-meth-alin, water, 0.7u GF µg/L (82683)	Phorate oxon, water, filtrd, 0.7u GF µg/L (61666)	Phorate oxon, water, filtrd, 0.7u GF µg/L (82664)	Phosmet water, filtrd, 0.7u GF µg/L (61668)	Phosmet water, filtrd, 0.7u GF µg/L (61601)	Prometon, water, filtrd, 0.7u GF µg/L (04037)	Prometryn, water, filtrd, 0.7u GF µg/L (04036)	Propyzamide, water, filtrd, 0.7u GF µg/L (82676)

Jul 08...	<.010	<.012	<.003	<.010	<.006	<.012	<.03	<.040	<.06	<.008	<.01	<.006	<.004
-----------	-------	-------	-------	-------	-------	-------	------	-------	------	-------	------	-------	-------

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 10 of 13

[Remark codes: <, less than; E, estimated; R, radchem non-detect, below ssLc.]

Date	Pro-	Propar-	Tebu-	Ter-	trans-	Tri-	1,1,1-						
	panil, water, filtrd, 0.7u GF µg/L (82679)	gite, water, 0.7u GF µg/L (82685)	Sima-zine, water, filtrd, 0.7u GF µg/L (04035)	thiuron, water, filtrd, 0.7u GF µg/L (82670)	bufosulfone, water, filtrd, 0.7u GF µg/L (61606)	terbu-oxon, water, filtrd, 0.7u GF µg/L (61674)	terbutyl-fos, water, filtrd, 0.7u GF µg/L (82675)	thio-bencarbazine, water, filtrd, 0.7u GF µg/L (04022)	propiconazole, water, filtrd, 0.7u GF µg/L (82681)	tribu-phos, water, filtrd, 0.7u GF µg/L (79847)	flur-alin, water, filtrd, 0.7u GF µg/L (61610)	trichloro-ethane, water, unfltrd, 0.7u GF µg/L (82661)	ethane, water, unfltrd, 0.7u GF µg/L (34506)
Jul 08...	<.006	<.04	<.006	<.02	<.003	<.04	<.02	<.01	<.010	<.02	<.035	<.009	<.1

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 11 of 13

[Remark codes: <, less than; E, estimated; R, radchem non-detect, below ssLc.]

Date	CFC-113	1,1-Di-chloro-ethane, water, unfltrd	1,1-Di-chloro-ethene, water, unfltrd	1,2-Di-chloro-benzene, water, unfltrd	1,2-Di-chloro-ethane, water, unfltrd	1,2-Di-chloro-propane, water, unfltrd	1,3-Di-chloro-benzene, water, unfltrd	1,4-Di-chloro-benzene, water, unfltrd	Bromo-di-chloro-methane, water, unfltrd	Bromo-bromo-methane, water, unfltrd	Tri-chloro-benzene, water, unfltrd	Chloro-benzene, water, unfltrd	cis-1,2-Di-chloro-ethene, water, unfltrd	
		µg/L (77652)	µg/L (34496)	µg/L (34501)	µg/L (34536)	µg/L (32103)	µg/L (34541)	µg/L (34566)	µg/L (34571)	µg/L (34030)	µg/L (32101)	µg/L (32104)	µg/L (34301)	µg/L (77093)
Jul 08...		<.1	<.1	<.1	<.1	<.2	<.1	<.1	<.1	<.1	<.1	<.1	<.2	<.1

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 12 of 13

[Remark codes: <, less than; E, estimated; R, radchem non-detect, below ssLc.]

Date	Di-bromo-	Di-chloro-	Di-chloro-	Di-ethyl	Diisopropyl	Ethyl-benzene	tert-pentyl	meta-+ para-	o-Xylene,	Styrene	t-Butyl	Methyl	Tetra-	
	chloro-methane water, unfltrd	chloro-fluoro-methane methane wat unf	chloro-methane water, unfltrd	ether, unfltrd	water, unfltrd	ethyl ether, unfltrd	chloro-ethene, water, unfltrd							
	µg/L (32105)	µg/L (34668)	µg/L (34423)	µg/L (81576)	µg/L (81577)	µg/L (34371)	µg/L (50005)	µg/L (85795)	µg/L (77135)	µg/L (77128)	µg/L (50004)	µg/L (78032)	µg/L (34475)	
Jul 08...	<.2	<.2	<.2	<.2	<.2	<.1	<.2	<.2	<.1	<.1	<.1	<.1	<.2	<.1

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 13 of 13

[Remark codes: <, less than; E, estimated; R, radchem non-detect, below ssLc.]

Date	trans-1,2-Di-chloro-		Tri-chloro-fluoro-		Tri-chloro-methane		Vinyl chloride,	Di-chlorovos,	Alpha radioac	Alpha radioac	Beta radioac	Beta radioac
	Tetra-chloro-methane	Toluene	ethene,	ethene,	methane	water,	water,	water,	30 day, wat flt	72 hr, wat flt	30 day, wat flt	72 hr, wat flt
	µg/L (32102)	µg/L (34010)	µg/L (34546)	µg/L (39180)	µg/L (34488)	µg/L (32106)	µg/L (39175)	µg/L (38775)	pCi/L (62639)	pCi/L (62636)	pCi/L (62645)	pCi/L (62642)
Jul 08...	<.2	<.1	<.1	<.1	<.2	<.1	<.2	<.01	1.6	2.3	2.2	R.8